Microsoft® Exchange 2000 Server

Uniting Users with Knowledge

Successful organizations rely on messaging and collaboration to manage communication and information, for enhanced knowledge worker productivity. Exchange 2000, seamlessly integrated with the Microsoft Windows® 2000 Server operating system, advances the state-of-the-art in messaging and collaboration with superior reliability, scalability, and performance, and lower total cost of ownership (TCO). Innovative new technology, such as the Web Store, combines the reliability and scalability of Exchange, with the openness and accessibility of the Web, to provide a complete repository for Web-based messaging, information management, collaboration, and applications. Advanced technologies, such as real-time data and video conferencing, instant messaging, an enhanced chat server, and support for wireless and unified messaging, establishes a foundation for new avenues of collaboration. Together with its client, Microsoft Outlook® 2000, Exchange 2000 provides a complete messaging and collaboration solution for your organization.

Microsoft Exchange 2000 Server is the reliable, easy to manage platform for messaging and collaboration that brings users and knowledge together

Highly Reliable, Scalable, and Manageable Messaging and Collaboration Infrastructure

Exchange 2000 Server, the server application designed specifically for Windows 2000 Server, delivers enhanced reliability, scalability, and performance, with lower cost of ownership derived through unified management of messaging, collaboration and network resources. Some benefits of Exchange 2000 include:

- Windows 2000 Active Directory™ integration, for a single user, messaging, and network administration management environment, with lower TCO.
- Multiple message databases, allowing administrators to split a single logical database across multiple physical databases, reducing backup and restore time, and increasing reliability.
- Four-way active/active clustering with Windows 2000 load balancing and fail-over services, for enhanced system reliability and end-user availability.
- A distributed configuration architecture, enabling the partition of services across multiple servers, extending scalability to millions of users for large enterprises, hosted Application Service Providers, ISPs, and similar environments.
- Fault-tolerant SMTP routing with SMTP as a full peer to X.400, providing high-performance routing, and tight Internet integration.
- Native MIME storage and retrieval with on-demand format conversion, for improved Internet e-mail performance.
- Single-seat administration of Exchange Server and the Windows 2000

operating system through Microsoft Management Console (MMC) to simplify management, reduce training time, and lower TCO.
- Native use of Windows 2000 security descriptors (access control lists) for access to resources, to simplify management while delivering increased security.

Rich Integration of Business Processes with Collaborative Web Applications

Microsoft Exchange 2000, continues a tradition of innovation, revealing a productivity enhancing collaborative platform centered on the new Web Store, a single point of management and storage for e-mail, documents, Web content, and applications. Some benefits of Exchange 2000 include:

- Easy access to Web Store content using the Outlook 2000 messaging and collaboration client, other e-mail clients, the Microsoft FrontPage® 2000 Web site creation and management tool, Web browser software, Windows File Explorer, or a Microsoft Win32®-based application, for unified file and content management.
- Seamless Office 2000 integration, with Office documents directly stored in, and retrievable from the Web Store, with Save/Read capability using native dialog boxes, for a consistent, centralized work environment.
- Integrated content indexing and search, enabling high-speed, accurate full text search across a broad set of content, including e-mail and attachments, Web content, and documents, for easy discovery of knowledge.
- Direct URL addressing of all Web Store content, including folders, messages, attachments, documents, and application data, to simplify information retrieval.
- Windows 2000 Internet Information Services (IIS) and Active Server Page (ASP) integration, for high-performance Web-enabled applications development including forms, business logic, and workflow services, utilizing existing tools and developer skills.
- Web Distributed Authoring and Versioning (DAV) support provides a common model for storing properties on items, allowing client/server document exchange and collaboration across the Internet.
- XML support for native representation of diverse data and protocol instances, enhancing the performance and user interface of the Outlook Web Access client.
- OLE DB and ActiveX® Data Objects (ADO) integration, opening the Web Store to developers who utilize the data and services of Exchange 2000, Microsoft SQL Server™, and the Microsoft BackOffice® family of solutions to create powerful applications accessing various data sources.
- Collaboration Data Objects (CDO) 3.0 for Web-enabled applications development with enhanced calendaring and contact management, and rapid programming across a number of languages.
- FrontPage 2000 integration, supporting the development of collaborative Web applications on Exchange 2000, adding knowledge and collaboration to Web sites.
- CDO Workflow Objects with a library of workflow services based on

simultaneous, synchronous events, for enhanced, high performance workflow and tracking.

- Event Model enhancements such as synchronous events support, to enable customization for workflow application development, processing of business logic or policies, and extension of Exchange services for solutions such as anti-virus.

Anytime, Anywhere Access to the People You Want and the Information You Need

Exchange 2000 liberates communication from the constraints of time and place, to provide mobile and geographically dispersed knowledge workers and teams with access to e-mail and other information in the Web Store anytime, anywhere. Some benefits of Exchange 2000 include:

- Enhanced Outlook Web Access, a robust client with improved performance, scalability, and user-friendliness, for mobile, roving, and occasional users.
- Data conferencing and application sharing based on the T.120 standard, offering an enterprise-ready, client-server solution for real-time multimedia conferencing. [1]
- Multicast video conferencing services for user-friendly scheduling and administration of geographically separated team conferences. [2]
- Instant messaging for the immediate transmission of messages within and across organizations for ad hoc, urgent communication.
- Presence information to notify users within and across organizations of online, out of the office, or busy status, of a select group or "buddy list."
- Unified messaging enhancements such as support for the Voice Profile for Internet Mail (VPIM) voicemail interoperability standard, built-in voice forms, and integrated access to Active Directory voicemail data such as greetings.
- Enhanced Chat services increasing scalability to 20,000 users per server, with Active Directory integration providing a single point for configuration data.
- Wireless interfaces and a new generation of mobile extensions and applications for access to critical collaborative information from a wide variety of devices.

Exchange Server and Microsoft BackOffice

Microsoft Exchange 2000 integrates with Microsoft BackOffice Server and Microsoft BackOffice Small Business Server product suites to provide a seamless platform for knowledge management, line of business, and infrastructure solutions. These suites install and configure Exchange 2000 together with other BackOffice family components, for branch offices of large organizations, medium sized organizations, and for small businesses, delivering an integrated and consistent user experience. Users can administer and monitor Exchange 2000 using the MMC. Integration between SQL Server 7.0 and Exchange 2000 allows the sending of messages triggered by SQL Server events, and the sending of messages directly to SQL Server

[1] Only available in Exchange 2000 Conferencing Server
[2] Only available in Exchange 2000 Conferencing Server

that includes T-SQL procedures. Using the Data Transformation Services in SQL Server and the Exchange Scripting Agent, data can be staged for broad access in Exchange Public Folders. In combination with CDO, the IIS services in Windows 2000 provide access to all Exchange 2000 resources through a Web browser. Systems Management Server integration allows easy deployment of Outlook clients to users' desktops, and proactive management of their desktop environment.

To learn more about Exchange 2000, please visit the Microsoft Exchange

Specifications

Server Web site at http://www.microsoft.com/exchange/. To learn more about the BackOffice family of products, please visit http://www.microsoft.com/backoffice/. To obtain Beta copies of Microsoft Exchange 2000 Server go to: http://www.microsoft.com/exchange/.

Server system requirements:

- Intel Pentium 300 megahertz (MHz) or faster processor
- 128 megabytes (MB) of RAM (256 MB recommended)
- 4 gigabytes (GB) of available hard-disk space
- Microsoft Windows 2000 Server operating system

Note: Actual requirements will vary based on your system configuration and on the features you choose to install. System requirements for programs may exceed system requirements described above. For a complete set of client system requirements, visit the Microsoft Outlook Web site at http://www.microsoft.com/outlook/

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